




# GEORGE MA

SOFTWARE DEVELOPER

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## SKILL SET

- **Languages:** Java, Python, C/C++, HTML/CSS, JavaScript (ES6)
- **Technologies:** Bootstrap, Flask, MySQL, NodeJS/Express, MongoDB, Ionic, Elasticsearch
- **Infrastructure:** Git, Jira, Confluence, Spring, Vim, Bash, Heroku

## EXPERIENCE

- **Software Engineer Intern | Evertz, Burlington** *May 2018 - Aug 2018*
  - Improved the runtime of a spreadsheet parsing, TCI/IP monitoring system by **60%** utilizing Python scripts.
  - Developed a **multi-threaded** Frame Synchronization application using **wxWidgets, C and Python**. The application enabled debugging of a previously unsupported device, and allowed for the monitoring of any frame drops, frame offsets, or desynchronizations.
  - Worked with two senior engineers to develop internal automation tools for the **Chaos Engineering System** that reduced regression test times by **5 hours**. System made use of an HTTP web-scraper created utilizing Python Requests/BeautifulSoup.
  - Agile work-flow consisting of Jira/Confluence and daily scrums. Subversion (SVN) for version control.
- **Student Design Engineer | Evertz, Burlington** *May 2017 - Aug 2017*
  - Designed and developed two Java applications from scratch; a JSON to PDF Rest-API Generator for the WebEASY system, and an SFTP solution (similar to WinSCP) for the **inSITE Big Data** Analytics Engine.
  - Extracting the Rest-API datasets into an easily readable and formatted PDF **increased conversion efficiency amongst engineers by 2 hours**.
  - The SFTP solution enabled engineers at broadcast networks such as **NBC** and **Discovery** to transfer indices off their inSITE systems back to RnD for analyzing.
  - Performed thorough testing using JUnit and developed within an agile work environment with weekly scrums.

## PROJECTS

- **WoofWoof | In Progress**
  - Creating a cross-platform dog meetup app using **Ionic (TypeScript), Java+Spring Boot** and **MongoDB** for storing user profiles. Will allow community driven meetup events to be organized conveniently and accessibly.
- **RecipeBot | github.com/george-ma/RecipeBot** *February 2018*
  - **Top 3 Chat Bot** and **Top 5 Overall** at the UofT CSSU/Platterz Hackathon
  - Facebook Messenger bot hosted on Heroku that allows for the discovery of new and exciting recipes from any ingredient the user requests.
  - Allows users to chat to the bot using their choice of either text or images (saved or directly taken using their phone camera). Image Processing developed using **Python** and **ClarifaiAPI**.
- **Picasso | github.com/george-ma/Picasso** *November 2017*
  - Fully featured image tagging manager made using **Java/JavaFX** for the backend/frontend and **SQLite** to persistently store tags in a database.
  - Created a responsive UI, provided the ability to: view individual and complete image history logs, add/remove image tags, and search the database using multiple queries.

## EXTRACURRICULARS

- **Graphic Design Lead, TU20 Exec | techundertwenty.com** *May 2017 - June 2018*
  - Designed all promotional material and t-shirts for the annual **50+ Student TU20 Cup** hosted at Microsoft HQ in Mississauga, coordinating with companies including Microsoft, Geotab, and local Halton based companies.

## EDUCATION

- **B.S Computer Science, University of Toronto St. George | Expected Graduation: 2020**
  - cGPA: 3.44
  - Relevant Courses: Software Design, Algorithm Design and Complexity, Systems Programming